ASSAY OF BIOLOGICALLY SPECIFIC MULTIPLE OBJECT TO BE ANALYZED

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Inventor: ERUTSUKI SOINI
Applicant: WALLAC OY
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Abstract of **JP1035268**

PURPOSE: To improve the methodology for assaying organismspecific multiple objects to be assayed by combinedly using micro-spheres and fluorescent labels having substantially different fluorescence decay time. CONSTITUTION: Various kinds of micro-spheres representing various kinds of objects to be assayed are prepared and each kind of micro-spheres is coated with an organism-specific reaction product. Various kinds of micro-spheres are pooled in a suspension and a sample containing an object to be assayed is added to the suspension. In addition, a mixture of the organism-specific reaction products labeled with a fluorescent compound having long decay time is added so as to cause an organism-specific reaction among the object to be assayed, a labeled reaction product, and a reaction product related to the micro-spheres. Then the fluorescent compound is excited and the fluorescence emitted from the compound is converted into electric signals. From the intensity of the electric signal generated by a fluorescent material having short decay time, the kind of each micro-sphere is identified. In addition, the concentration of the object to be assayed against the micro-spheres is measured from the intensity of the electric signal generated by the fluorescent compound having long decay time.

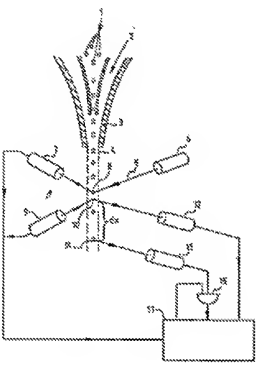

Fig. 1